FIGURE 1A

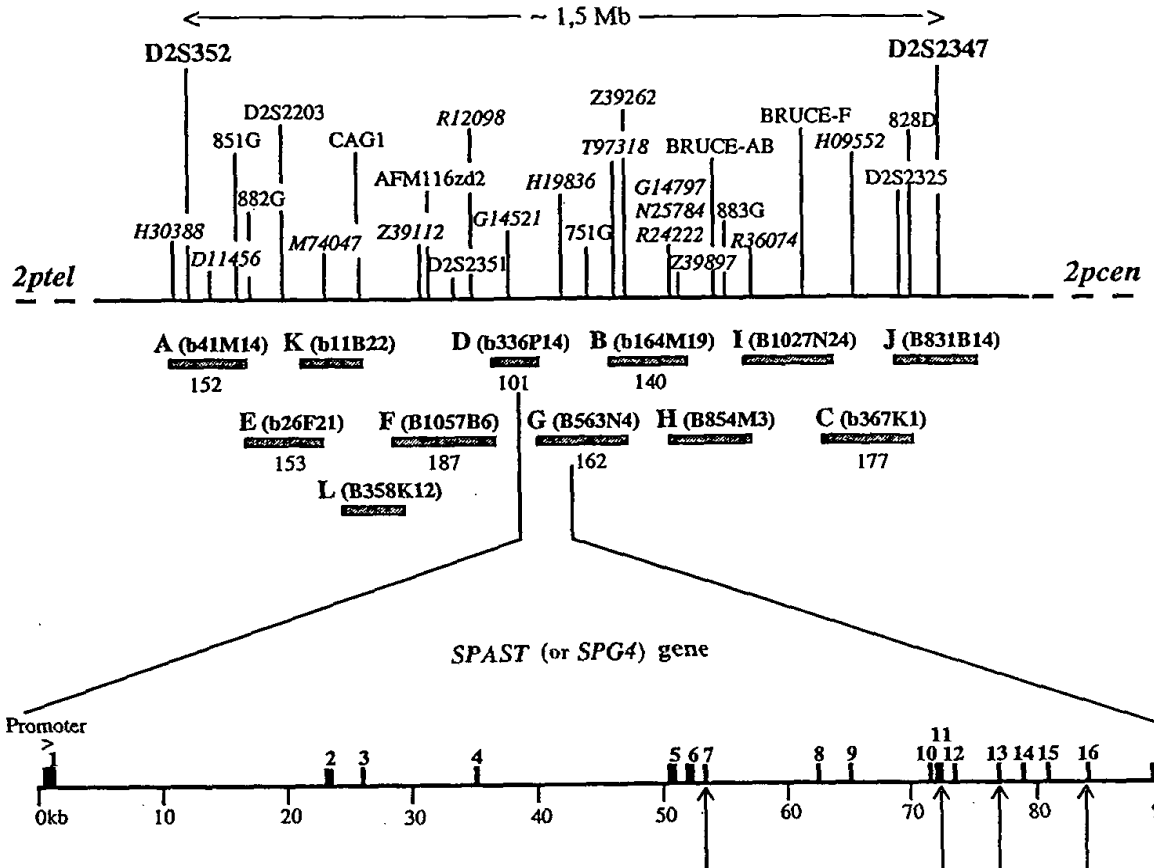

FIGURE 1B

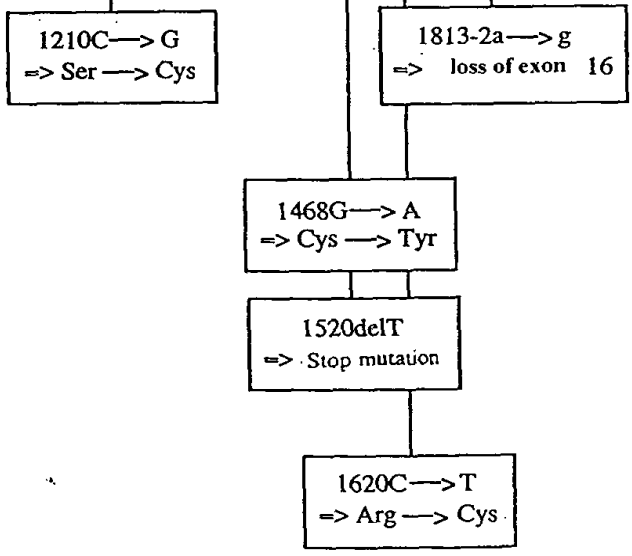

FIGURE 1C

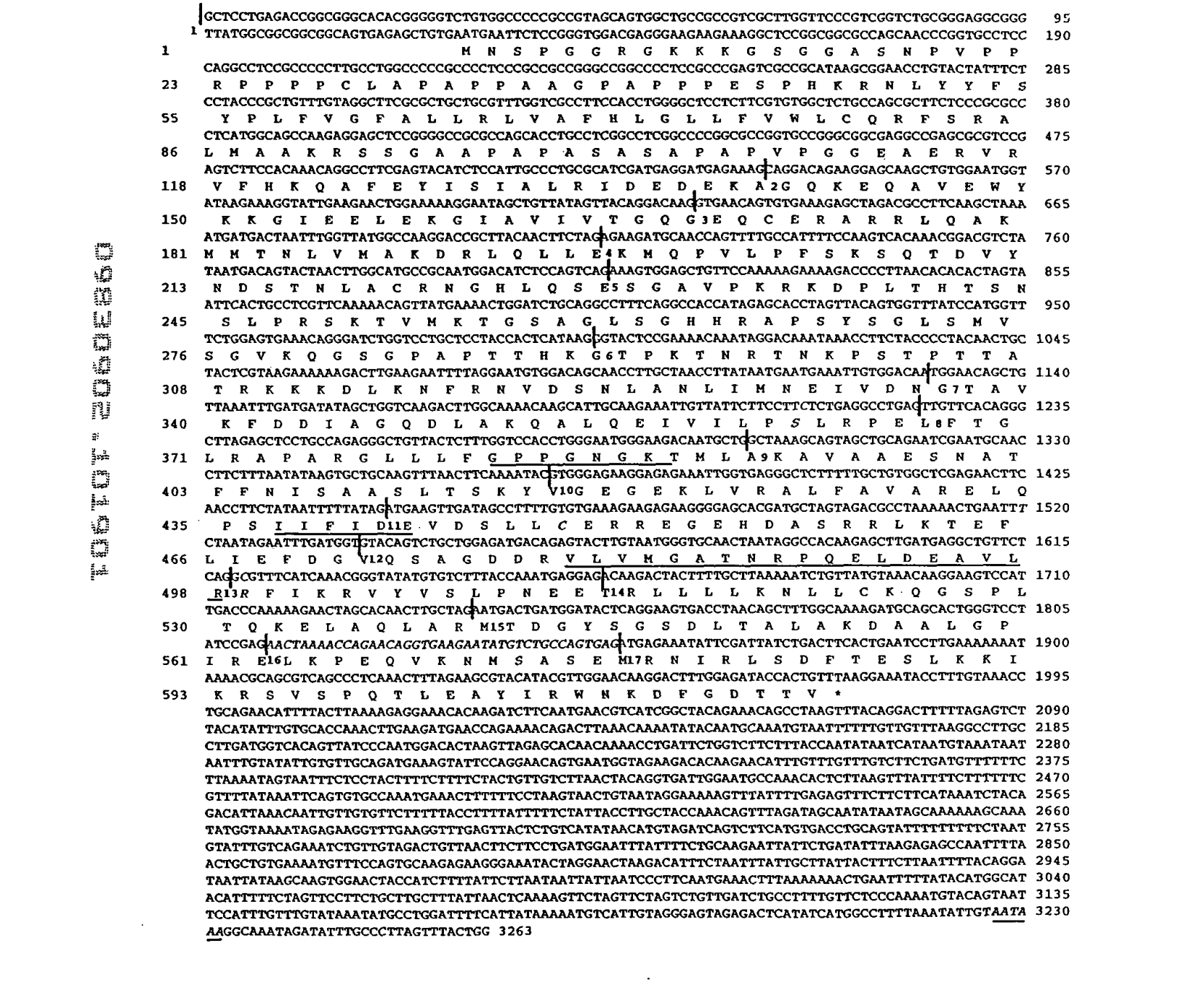

FIGURE 2

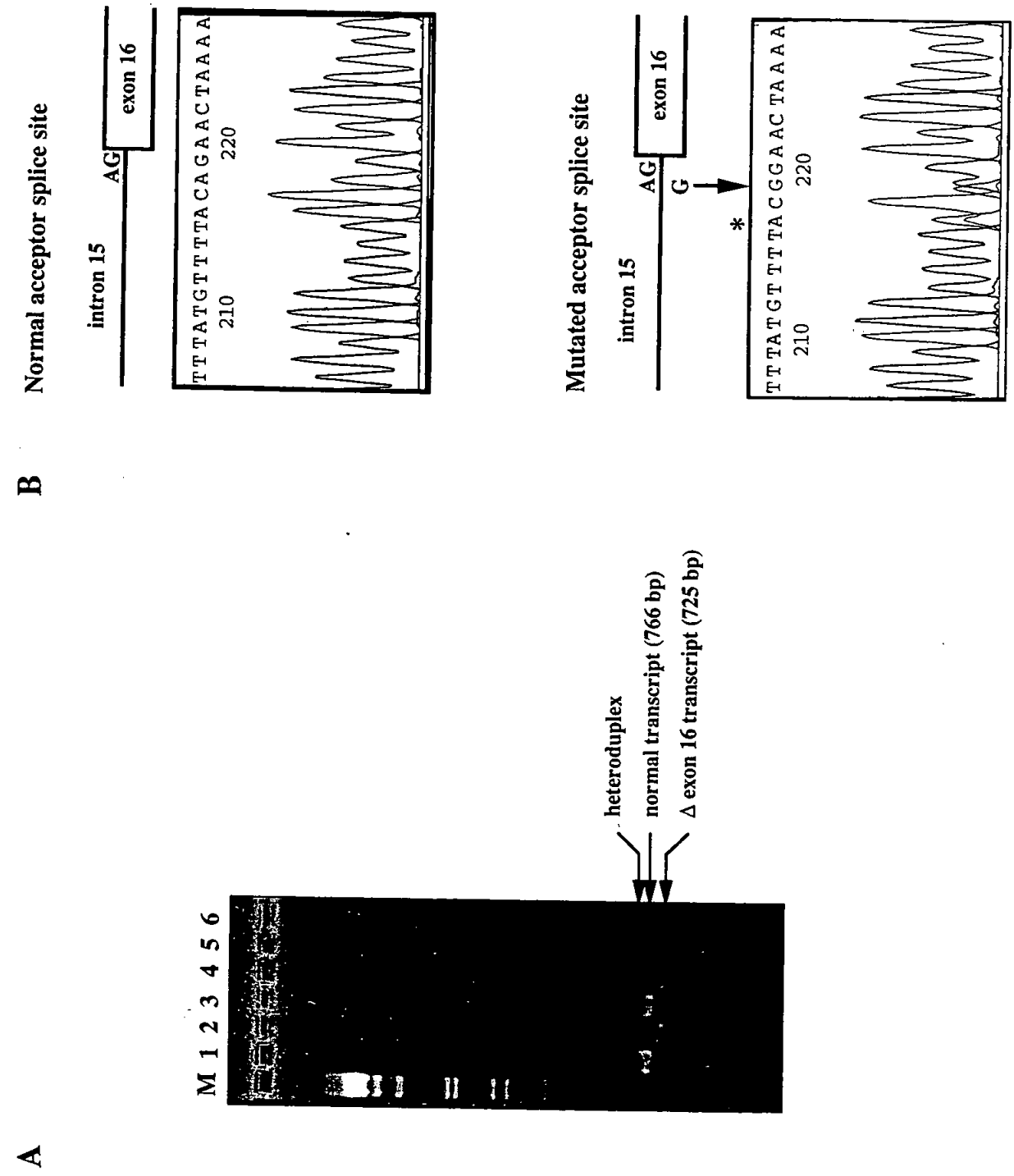
A
M 1 2 3 4 5 6
heteroduplex
normal transcript (766 bp)
Δ exon 16 transcript (725 bp)
B
Normal acceptor splice site
intron 15
AG
exon 16
T T A T G T T T A C A G A A C T A A A A
210
220
Mutated acceptor splice site
intron 15
AG
G
exon 16
*
T T A T G T T T A C G G A A C T A A A A
210
220

FIGURE 3


TBP6_YEAST
Q02845_YEAST
SAP1_YEAST
SKD1_MOUSE
EN13_YEAST
SPAST_HUMAN
SPAST_MOUSE
O43078_SCHPO
O16299_CAEEL
Q18128_CAEEL

FIGURE 4A

FIGURE 4B

```
Human:    1 [...] 459
Mouse:    1 AGGCCGAGAGCGTCCGCGTCTTCCACAAGCAGGCCTTCGAGTACATCTCCATTGCCCTGC 60

Human:  460 AGGCCGAGCGCGTCCGAGTCTTCCACAAACAGGCCTTCGAGTACATCTCCATTGCCCTGC 519
Mouse:   61 GCATCGACGAGGAAGAGAAAGCAGGACAGAAGGAACAAGCTGTGGAATGGTATAAGAAAG 120

Human:  520 GCATCGATGAGGATGAGAAAGCAGGACAGAAGGAGCAAGCTGTGGAATGGTATAAGAAAG 579
Mouse:  121 GTATCGAAGAACTGGAAAAAGGAATCGCTGTTATAGTTACGGGCCAAGGTGAACAGTATG 180

Human:  580 GTATTGAAGAACTGGAAAAAGGAATAGCTGTTATAGTTACAGGACAAGGTGAACAGTGTG 639
Mouse:  181 AAAGAGCTAGACGTCTTCAAGCCAAAATGATGACTAATTTAGTTATGGCCAAGGACCGTT 240

Human:  640 AAAGAGCTAGACGCCTTCAAGCTAAAATGATGACTAATTTGGTTATGGCCAAGGACCGCT 699
Mouse:  241 TACAACTTCTAGAGAAGCTGCAACCAGTTTTGCAATTTTCCAAGTCACAGACGGACGTCT 300

Human:  700 TACAACTTCTAGAGAAGATGCAACCAGTTTTGCCATTTTCCAAGTCACAAACGGACGTCT 759
Mouse:  301 ATAACGAGAGTACTAACCTGACATGCCGCAATGGACATCTCCAGTCAGAAAGTGGAGCAG 360

Human:  760 ATAATGACAGTACTAACTTGGCATGCCGCAATGGACATCTCCAGTCAGAAAGTGGAGCTG 819
Mouse:  361 TTCCGAAGAGGAAAGACCCCTTAACACATGCTAGTAATTCATTGCCTCGATCAAAAACTG 420

Human:  820 TTCCAAAAAGAAAAGACCCCTTAACACACACTAGTAATTCACTGCCTCGTTCAAAAACAG 879
Mouse:  421 TCCTGAAAAGTGGCTCCGCAGGGCTCTCCGGTCACCACAGGGCGCCTAGTTGCAGTGGTT 480

Human:  880 TTATGAAAACTGGATCTGCAGGCCTTTCAGGCCACCATAGAGCACCTAGTTACAGTGGTT 939
Mouse:  481 TGTCCATGGTTTCTGGAGCAAGACCGGGACCTGGTCCTGCAGCTACCACACATAAGGGTA 540

Human:  940 TATCCATGGTTTCTGGAGTGAAACAGGGATCTGGTCCTGCTCCTACCACTCATAAGGGTA 999
Mouse:  541 CTCCAAAACCAAATAGAACCAACAAACCTTCTACTCCCACAACTGCAGTTCGGAAAAAGA 600

Human: 1000 CTCCGAAAACAAATAGGACAAATAAACCTTCTACCCCTACAACTGCTACTCGTAAGAAAA 1059
Mouse:  601 AAGACTTGAAAAATTTTAGGAATGTGGACAGCAATCTTGCTAACCTTATAATGAATGAAA 660

Human: 1060 AAGACTTGAAGAATTTTAGGAATGTGGACAGCAACCTTGCTAACCTTATAATGAATGAAA 1119
Mouse:  661 TTGTTGACAATGGGACAGCTGTTAAGTTTGATGACATAGCCGGGCAGGAGCTGGCAAAGC 720

Human: 1120 TTGTGGACAATGGAACAGCTGTTAAATTTGATGATATAGCTGGTCAAGACTTGGCAAAAC 1179
Mouse:  721 AAGCGCTGCAGGAGATTGTCATCCTTCCTTCTCTGCGGCCTGAGTTGTTCACAGGGCTCA 780

Human: 1180 AAGCATTGCAAGAAATTGTTATTCTTCCTTCTCTGAGGCCTGAGTTGTTCACAGGGCTTA 1239
Mouse:  781 GAGCTCCTGCTAGAGGCTTGTTACTCTTCGGTCCGCCAGGAAACGGAAAAACAATGCTGG 840

Human: 1240 GAGCTCCTGCCAGAGGGCTGTTACTCTTTGGTCCACCTGGGAATGGGAAGACAATGCTGG 1299
Mouse:  841 CTAAAGCAGTAGCTGCAGAGTCTAATGCGACCTTTTTCAACATAAGTGCTGCCAGTTTAA 900

Human: 1300 CTAAAGCAGTAGCTGCAGAATCGAATGCAACCTTCTTTAATATAAGTGCTGCAAGTTTAA 1359
Mouse:  901 CTTCAAAATATGTGGGAGAAGGAGAGAAATTGGTGAGAGCTCTCTTTGCTGTGGCTCGAG 960

Human: 1360 CTTCAAAATACGTGGGAGAAGGAGAGAAATTGGTGAGGGCTCTTTTTGCTGTGGCTCGAG 1419
Mouse:  961 AACTTCAACCATCTATAATTTTTATAGATGAAGTTGACAGTCTTTTGTGTGAGAGACGGG 1020

Human: 1420 AACTTCAACCTTCTATAATTTTTATAGATGAAGTTGATAGCCTTTTGTGTGAAAGAAGAG 1479
Mouse:  1021 AAGGGGAGCACGACGCTAGCAGACGGCTAAAGACGGAATTTTTAATAGAATTTGACGGGG 1080

Human: 1480 AAGGGGAGCACGATGCTAGTAGACGCCTAAAAACTGAATTTCTAATAGAATTTGATGGTG 1539
Mouse:  1081 TGCAATCTGCTGGAGATGACAGAGTACTTGTAATGGGTGCAACTAACAGGCCCCAAGAGC 1140

Human: 1540 TACAGTCTGCTGGAGATGACAGAGTACTTGTAATGGGTGCAACTAATAGGCCACAAGAGC 1599
Mouse:  1141 TTGATGAAGCTGTTCTCAGGCGTTTCATTAAACGGGTATATGTGTCCTTACCAAATGAGG 1200

Human: 1600 TTGATGAGGCTGTTCTCAGGCGTTTCATCAAACGGGTATATGTGTCTTTACCAAATGAGG 1659
Mouse:  1201 AGACAAGACTCCTTCTGCTTAAAAACCTGTTGTGTAAACAAGGAAGTCCACTGACCCAAA 1260

Human: 1660 AGACAAGACTACTTTTGCTTAAAAATCTGTTATGTAAACAAGGAAGTCCATTGACCCAAA 1719
Mouse:  1261 AAGAACTCGCACAGCTTGCTAGAATGACCGATGGATACTCTGGAAGTGATCTGACCGCTT 1320

Human: 1720 AAGAACTAGCACAACTTGCTAGAATGACTGATGGATACTCAGGAAGTGACCTAACAGCTT 1779
Mouse:  1321 TGGCCAAGGATGCAGCCCTGGGTCCTATCCGAGAACTGAAGCCAGAGCAGGTGAAGAATA 1380

Human: 1780 TGGCAAAAGATGCAGCACTGGGTCCTATCCGAGAACTAAAACCAGAACAGGTGAAGAATA 1839
Mouse:  1381 TGTCTGCCAGTGAGATGAGAAATATTCGATTATCTGACTTCACAGAATCCTTAAAAAAGA 1440

Human: 1840 TGTCTGCCAGTGAGATGAGAAATATTCGATTATCTGACTTCACTGAATCCTTGAAAAAAA 1899
Mouse:  1441 TAAAACGCAGTGTGAGTCCTCAGACCTTAGAAGCATACATACGCTGGAACAAGGATTTTG 1500

Human: 1900 TAAAACGCAGCGTCAGCCCTCAAACTTTAGAAGCGTACATACGTTGGAACAAGGACTTTG 1959
Mouse:  1501 GAGACACCACTGTTTAAAGGAAT 1523

Human: 1960 GAGATACCACTGTTTAAGGAAAT 1982
Human: 1983 [...] 3263
Mouse:  1524 GGATGCCTCTGTGAGCCCATAGAACATCGCACTTCACAGGAAACAAGAGCTTTGGCTACA 1583
        1584 GGAACCCAGACTTCGTTTACAGGACGTTTTAGAGTTTTCATTTTTGTGCACCAAACTTGA 1643
        1644 AGAGGAACAAGAAGACAGACCTAATAAAATATGCAATATGAATGG 1689
```

FIGURE 5

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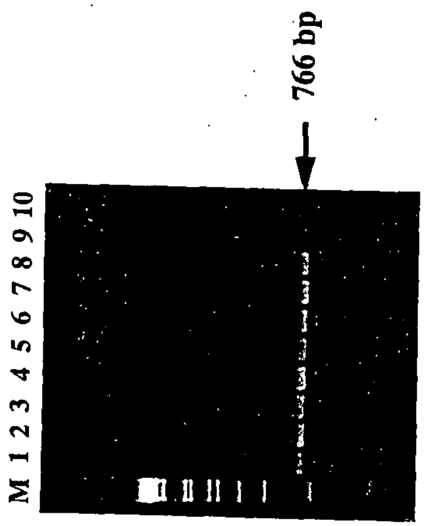

FIGURE 6B

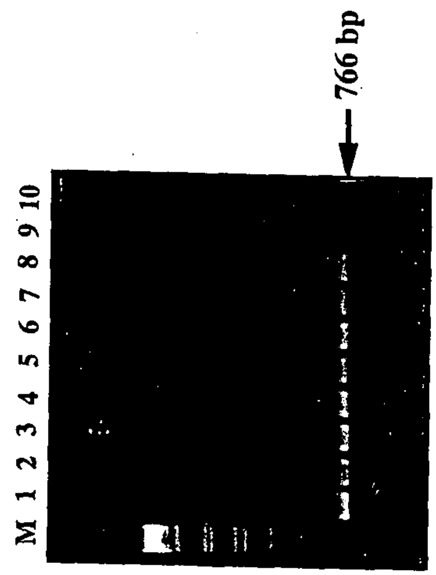

FIGURE 6C

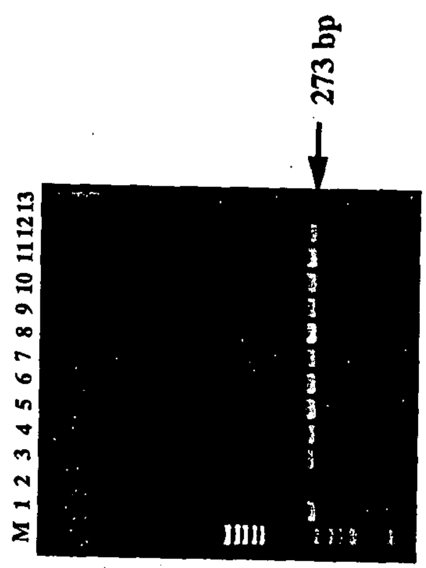

FIGURE 6A